

Alstom develops and produces equipment, systems and services for the railway sector like trains, trams, metro's, signalling systems, infrastructure and services like maintenance and modernisation.

With a focus on sustainable mobility, Alstom has recently introduced several innovations like the world's first hydrogen fueled passenger train Coradia iLint and the e-bus Aptis. Alstom in The Netherlands operates on an environmental conscious base and targets to reduce CO₂ emissions in its Dutch facilities. The CO₂ certification has been maintained for several years.



KEY FIGURES

225 employees

2 sites

CO₂ level performance: **5**

> 200 trains in operation

170 km of ERTMS trackside on BetuweRoute and Hanzelijn

ALSTOM ORGANISATION IN THE NETHERLANDS

- Alstom in The Netherlands is one of the major suppliers of rail systems. The company focuses on supplying rail vehicles for urban rail transport such as metros and tramways, and on regional and high-speed trains. Alstom furthermore focusses on Digital Mobility, such as signaling solutions for safe and performant railway networks and Digital Services for high fleet availability at lowest life cycle costs. These activities are led by 2 sites: Utrecht for Signalling and Ridderkerk for Services.

INDUSTRIAL ACTIVITIES AND PROJECT MANAGEMENT



▪ UTRECHT – RAIL SIGNALLING SYSTEMS

- Head office for the Netherlands, project office in Duivendrecht
- Full-solution provider of Urban and Mainline signalling projects (design, delivery, installation and commissioning)
- Maintenance of complete signalling systems



▪ RIDDERKERK – SERVICES

- Fleet support Center – predictive maintenance
- Service level agreements
- Parts & repairs
- Service & commissioning
- Train modernisation projects
- Integration projects.

MAIN REFERENCES



ROLLING STOCK

- 113 trams Citadis in Rotterdam for RET
- 72 tram-trains Regio-Citadis in The Hague for HTM
- 28 metros Metropolis in Amsterdam for GVB



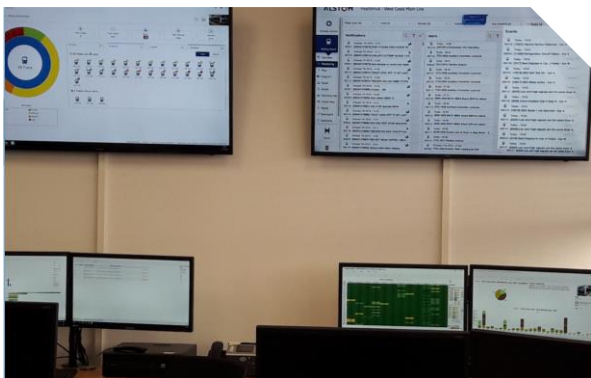
SIGNALLING

- ERTMS safety system on the Betuweroute (130 km freight route) and on the Hanzelijn (40km)
- Complete signalling system the Rotterdam Metro
- Complete CBTC systems (Urbalis) for the Amsterdam Metro (North/South line and the Ring-line)
- ERTMS on-board equipment in freight locomotives
- Interlockings and train detection systems for ProRail
- ATB, the train safety system on the core rail network
- On-board ATB in trains



SERVICES

- Maintenance of ERTMS systems on BetuweRoute and Hanzelijn for ProRail
- Maintenance of on-board ERTMS for operators
- Fleet support center – Healthhub predictive maintenance to optimize availability, cost & passenger satisfaction
- Performing parts and repair and supply chain logistics for urban and mainline operators in the Netherlands
- Preventive, corrective maintenance on rolling stock for various Dutch customers
- Modernization of the Rotterdam Metro MG2-SG2 fleet control platform PLC – MMI.
- Modernization program for the VIRM GTO auxiliary power converters to IGBT
- Design, production & commissioning of hybrid traction drive, battery system & CVS for the Prima H3 shunting locomotive.



Fleet support



PROJECTS ONGOING



TRAINS

- In 2016 Alstom signed a contract with NS for the delivery of 79 new ICNG intercity trains to operate on the HSL and on the core rail network. First train delivery will take place in 2020.



SIGNALLING

- ATO tests on the Betuweroute
- CBTC Signalling system for the Amsterdam metro network and rolling stock
- Signalling system for Rotterdam Metro
- Betuweroute extension projects with ERTMS



SERVICES

- CBTC equipment for the Amsterdam metro: installation on trains and testing of mechanical and electrical interfacing on train level
- Design, production, delivery and warranty of the 460 DC traction installations in 85 vehicles for the Metro of Mexico
- Modernization of the Rotterdam Metro MG2-SG2 fleet, 81 vehicles, control platform PLC – MMI and auxiliary power supply.
- Production of IGBT power & control electronics for 20 hybrid shunting locomotives Prima H3.